

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 03/00848

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: F01N 3/023, F02D 21/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: F01N, F02D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 19926138 A1 (VOLKSWAGEN AG), 14 December 2000 (14.12.00), column 4, line 16 - column 5, line 2, figure 1	1-3,8-11
Y	--	4-7
Y	US 2001045090 A1 (C.L. GRAY, JR.), 29 November 2001 (29.11.01), figures 4,5, abstract, page 3, paragraph (0027) - paragraph (0029)	4-7
A	GB 2229937 A (DAIMLER BENZ AKTIENGESELLSCHAFT), 10 October 1990 (10.10.90), abstract	

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

5 August 2003

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Date of mailing of the international search report

06-08-2003

Authorized officer

Dan Ionesco / MRo
Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 03/00848

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 4835963 A (J.A. HARDY), 6 June 1989 (06.06.89), abstract</p> <p style="text-align: center;">-- -----</p>	

INTERNATIONAL SEARCH REPORT
Information on patent family members

26/07/03

International application No.
PCT/SE 03/00848

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
DE	19926138	A1	14/12/00	NONE	
US	2001045090	A1	29/11/01	US 6470682 B AU 762474 B AU 6353100 A CA 2376620 A EP 1198669 A JP 2003505642 T US 6301888 B WO 0107774 A	29/10/02 26/06/03 13/02/01 01/02/01 24/04/02 12/02/03 16/10/01 01/02/01
GB	2229937	A	10/10/90	DE 3909932 A FR 2644845 A GB 9006207 D IT 1239437 B IT 4777990 D IT 9047779 D JP 3067014 A	27/09/90 28/09/90 00/00/00 02/11/93 00/00/00 00/00/00 22/03/91
US	4835963	A	06/06/89	DE 3775668 A EP 0260031 A,B SE 0260031 T3 JP 63057811 A	13/02/92 16/03/88 12/03/88